

S&MA Mission Services

Task Directive

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| Control No. 0067 | ORG No.: QS20 | Project Code Shuttle - PRA | Contract No. NAS8-00179 |
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| Originator's Signature: for QS20/Alex Adams <i>Angelina H. Walker</i> | Date: <i>8/22/02</i> | Originator's Priority: High |
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| Office Manager's Signature: for QS20/Alex Adams <i>Angelina A. Walker</i> | Date: <i>8/27/02</i> | |
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| COTR's Approval: QS01/Terry Hamm <i>Terry J. Hamm</i> | Date: <i>9-9-02</i> | |
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Subject: Basic Probabilistic Risk Assessment (PRA) support for MSFC Shuttle Elements

Task Description:

- Conduct technical interchange meetings with each Shuttle prime (Rocketdyne, Pratt & Whitney, Thiokol, Lockheed Martin, USA) to insure consistency in modeling and quantification
- Resolve technical issues between MSFC elements and JSC, KSC
- Provide expert support to the primes through modeling guidance and review of completed models
- Assist primes in model development and quantification
- Review models developed by the prime contractors and resolve any issues that are found
- Input completed PRA models into the SAPHIRE software program
- Acquire software to assist in quantification of risk

Required Action/Deliverables/Schedule:

- Trip reports from technical interchange meetings
- Documentation of communication with JSC and KSC
- Documentation of review comments sent to Shuttle primes
- Shuttle PRA models in SAPHIRE

Schedule/Manpower

- Task to be ongoing

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| Report Progress To: QS20/Alex Adams | Report Date: | Frequency of Report: On going |
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